

## SEQUENCE LISTING

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##

<120> METHODS AND COMPOSITIONS FOR STABILIZING MICROTUBULES IN STRIATED MUSCLE CELLS

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Arg Asn Leu	Leu Val Glu 100	Asn Ile Ile 105	Asp Ile Tyr Lys	Gln Glu Ser 110
Ser Arg Pro 115	Leu His Ala	Lys Ala Glu 120	Gln His Leu Met 125	Cys Glu Glu

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Thr Cys Ser Leu Cys Lys Val Phe Gly Ala His Lys Asp Cys Glu Val

Ala Pro Leu Pro Thr Ile Tyr Lys Arg Gln Lys Ser Glu Leu Ser Asp 165 170 175

Gly Ile Ala Met Leu Val Ala Gly Asn Asp Arg Val Gln Ala Val Ile 180 185 190

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Glu Met Leu Arg Thr Ile Asp Phe Gln Pro Gly Ala Ala Gly Asp Glu 325 330 335

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cac His	aac Asn 45	ı Leu	tgc Cys	agg Arg	aaa Lys	tgt Cys 50	Ala	agt Ser	gac Asp	ato Ile	ttc Phe 55	Gln	gcc Ala	tct Ser	aac Asn	256
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tgt Cys	gaa Glu 125	gag Glu	cat His	gaa Glu	gag Glu	gaa Glu 130	cgc Arg	atc Ile	aac Asn	atc Ile	tat Tyr 135	tgt Cys	ctg Leu	aac Asn	tgt Cys	496
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Thr Arg Pro Glu Lys Lys Leu Asp Gln Pro Met Cys Glu Glu His Glu 115 120 125

Glu Glu Arg Ile Asn Ile Tyr Cys Leu Asn Cys Glu Val Pro Thr Cys 130 135 140

Ser Leu Cys Lys Val Phe Gly Ala His Lys Asp Cys Gln Val Ala Pro 145 150 155 160

Leu Thr His Val Phe Gln Arg Gln Lys Ser Glu Leu Ser Asp Gly Ile 165 170 175

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Asn Val Ser Lys Leu Val Glu Ser Gly Ile Gln Phe Met Asp Glu Pro 260 265 270

Glu Met Ala Val Phe Leu Gln Asn Ala Lys Thr Leu Leu Gln Lys Ile 275 280 285

Val Glu Ala Ser Lys Ala Phe Gln Met Glu Lys Leu Glu Gln Gly Tyr 295 Glu Ile Met Ser Asn Phe Thr Val Asn Leu Asn Arg Glu Glu Lys Ile 305 310 315 Ile Arg Glu Ile Asp Phe Ser Arg Glu Glu Glu Glu Glu Asp Ala Gly Glu Ile Asp Glu Glu Gly Glu Gly Glu Asp Ala Val Glu Val Glu Glu Ala Glu Asn Val Gln Ile Ala Ser Ser Gly Glu Glu Glu Ser Leu 355 360 Glu Lys Ala Ala Glu Pro Ser Gln Leu Pro Ala Glu Leu Gln Val Ala 375 Pro Glu Pro Leu Pro Ala Ser Ser Pro Glu Pro Phe Ser Ser Met Pro 390 395 Pro Ala Ala Asp Val Leu Val Thr Gln Gly Glu Val Val Pro Ile Gly 405 410 Ser Gln Gln Thr Thr Gln Ser Glu Thr Ser Gly Pro Ser Ala Ala Glu 425 Thr Ala Asp Pro Leu Phe Tyr Pro Ser Trp Tyr Lys Gly Gln Ser Arg 440 Lys Thr Ser Ser Asn Pro Pro Cys Thr His Gly Ser Glu Gly Leu Gly 450 Gln Ile Gly Pro Leu Gly Ile Glu Asp Ser Ser Val Gln Ser Ala Glu Val Ala Glu Ala Ala Thr Asn Glu Gln Ala Ala Val Ser Gly Lys Glu 485 Ser Ser Ser Thr Ala Ala Thr Ser Gln Ile Gly Phe Glu Ala Pro Ser 500 Pro Gln Gly Gln Ser Ala Ala Leu Gly Ser Gly Gly Val Ile Leu Ser Gln Leu Ala Thr Ser Ser Pro Ser Pro Gly Leu Asn Ser Leu Asn 535 540 Glu 545

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Leu Glu Lys Gln Leu Ile Cys Pro Ile Cys Leu Glu Met Phe Thr Lys
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Ser Val Ser Met Ser Gly Gly Arg Phe Arg Cys Pro Ser Cys Arg His

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85
90
95

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Leu Val Glu Asn Ile Ile Asp Ile Tyr Lys Gln Glu Cys Ser Ser Arg
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115 120 125

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Lys Ile Asn Ile Tyr Cys Leu Thr Cys Glu Val Pro Thr Cys Ser Leu
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Pro Va	l Val 35	Ile	Leu	Pro	Суѕ	Gln 40	His	Asn	Leu	Cys	Arg 45	Lys	Cys	Ala
Asn As		Phe	Gln	Ala	Ala 55	Asn	Pro	Tyr	Trp	Thr 60	Asn	Arg	Gly	Gly
Ser Va 65	l Ser	Met	Ser	Gly 70	Gly	Arg	Phe	Arg	Cys 75	Pro	Ser	Cys	Arg	His 80
Glu Va	l Ile	Met	Asp 85	Arg	His	Gly	Val	Tyr 90	Gly	Leu	Gln	Arg	Asn 95	Leu
Leu Va	l Glu	Asn 100	Ile	Ile	Asp	Ile	Tyr 105	Lys	Gln	Glu	Cys	Ser 110	Ser	Arg
Pro Le	u Gln 115	Lys	Gly	Ser	His	Pro 120	Met	Cys	Lys	Glu	His 125	Glu	Asp	Glu
Lys Il 13		Ile	Tyr	Cys	Leu 135	Thr	Суѕ	Glu	Val	Pro 140	Thr	Cys	Ser	Leu
Cys Ly 145	s Val	Phe	Gly	Ala 150	His	Gln	Ala	Cys	Glu 155	Val	Ala	Pro	Leu	Gln 160
Ser Il	e Phe	Gln	Gly 165	Gln	Lys	Thr	Glu	Leu 170	Ser	Asn	Cys	Ile	Ser 175	Met
Leu Va	l Ala	Gly 180	Asn	Asp	Arg	Val	Gln 185	Thr	Ile	Ile	Ser	Gln 190	Leu	Glu
Asp Se	r Cys 195	Arg	Val	Thr	Lys	Glu 200	Asn	Ser	His	Gln	<b>Val</b> 205	Lys	Glu	Glu
Leu Se 21		Lys	Phe	Asp	Thr 215	Leu	Tyr	Ala	Ile	Leu 220	Asp	Glu	Lys	Lys
Ser Gl 225	u Leu	Leu	Gln	Arg 230	Ile	Thr	Gln	Glu	Gln 235	Glu	Glu	Lys	Leu	Gly 240
Phe Il	e Glu	Ala	Leu 245	Ile	Leu	Gln	Tyr	Arg 250	Glu	Gln	Leu	Glu	Lys 255	Ser
Thr Ly	s Leu	Val 260		Thr	Ala	Ile	Gln 265	Ser	Leu	Asp	Glu	Pro 270	Gly	Gly

Ala Thr Phe Leu Ser Ser Ala Lys Gln Leu Ile Lys Ser Ile Val Glu 275 280 285

Ala Ser Lys Gly Cys Gln Leu Gly Lys Thr Glu Gln Gly Phe Glu Asn 290 295 300

Met Asp Tyr Phe Thr Leu Asp Leu Glu His Ile Ala Glu Ala Leu Arg 305 310 315 320

Ala Ile Asp Phe Gly Thr Gly Lys Gly Cys Asp Val Thr Cys Leu Thr 325 330 335

Phe Glu Arg Gln Arg Ser Ser 340